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1 Constructing, organizing, and visualizing collections of topically related Web resources ■
Loren Terveen, Will Hill, Brian Amento
March 1999 **ACM Transactions on Computer-Human Interaction (TOCHI),** Volume 6 Issue 1

Full text available: 🔲 pdf(303.62 KB)   Additional Information: full citation, abstract, references, citings, index terms

For many purposes, the Web page is too small a unit of interaction and analysis. Web sites are structured multimedia documents consisting of many pages, and users often are interested in obtaining and evaluating entire collections of topically related sites. Once such a collection is obtained, users face the challenge of exploring, comprehending and organizing the items. We report four innovations that address these user needs: (1) we replaced the Web page with the Web site
Keywords: cocitation analysis, collaborative filtering, computer supported cooperative work, information visualization, social filtering, social network analysis

2 MAPA: a system for inducing and visualizing hierarchy in Websites ■
David Durand, Paul Kahn
May 1998 **Proceedings of the ninth ACM conference on Hypertext and hypermedia : links, objects, time and space---structure in hypermedia systems: links, objects, time and space---structure in hypermedia systems**
Full text available: 🔲 pdf(1.52 MB)   Additional Information: full citation, references, citings, index terms

3 Model-driven development of Web applications: the AutoWeb system ■
Piero Fraternali, Paolo Paolini
October 2000 **ACM Transactions on Information Systems (TOIS),** Volume 18 Issue 4

Full text available: 🔲 pdf(6.94 MB)   Additional Information: full citation, abstract, references, citings, index terms

This paper describes a methodology for the development of WWW applications and a tool environment specifically tailored for the methodology. The methodology and the development environment are based upon models and techniques already used in the hypermedia, information systems, and software engineering fields, adapted and blended in an original mix. The foundation of the proposal is the conceptual design of WWW applications, using HDM-lite, a notation for the specification of structure, nav ...

Keywords: HTML, WWW, application, development, intranet, modeling

4 Information retrieval on the web

Mei Kobayashi, Koichi Takeda
June 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 2

Full text available: pdf(213.89 KB)   Additional Information: full citation, abstract, references, citings, index terms

In this paper we review studies of the growth of the Internet and technologies that are useful for information search and retrieval on the Web. We present data on the Internet from several different sources, e.g., current as well as projected number of users, hosts, and Web sites. Although numerical figures vary, overall trends cited by the sources are consistent and point to exponential growth in the past and in the coming decade. Hence it is not surprising that about 85% of Internet user ...

Keywords: Internet, World Wide Web, clustering, indexing, information retrieval, knowledge management, search engine

5 Automatic generation of diagrammatic Web site maps

Robert Inder, Jonathan Kilgour, John Lee
February 1998 **Proceedings of the 1998 ACM symposium on Applied Computing**

Full text available: pdf(1.12 MB)   Additional Information: full citation, references, index terms

Keywords: World Wide Web, navigation, site map

6 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: pdf(4.21 MB)   Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

7 Tools and approaches for developing data-intensive Web applications: a survey

Piero Fraternali
September 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 3

Full text available: pdf(524.80 KB)   Additional Information: full citation, abstract, references, citings, index terms

The exponential growth and capillar diffusion of the Web are nurturing a novel generation of applications, characterized by a direct business-to-customer relationship. The development of such applications is a hybrid between traditional IS development and Hypermedia authoring, and challenges the existing tools and approaches for software production. This paper investigates the current situation of Web development tools, both in the commercial and research fields, by identifying and characte ...

Keywords: HTML, Intranet, WWW, application, development

8 Finding and visualizing inter-site clan graphs

Loren Terveen, Will Hill
January 1998 **Proceedings of the SIGCHI conference on Human factors in computing systems**
Full text available: pdf(1.16 MB)   Additional Information: full citation, references, citings, index terms

Keywords: co-citation analysis, collaborative filtering, computer supported cooperative work, human-computer interaction, information access, information retrieval, information visualization, social filtering, social network analysis

9   Constructing multi-granular and topic-focused web site maps
Wen-Syan Li, Necip Fazil Ayan, Okan Kolak, Quoc Vu, Hajime Takano, Hisashi Shimamura
April 2001 **Proceedings of the tenth international conference on World Wide Web**

Full text available: pdf(3.18 MB)   Additional Information: full citation, references, citings, index terms

Keywords: decision tree algorithm, logical domain, multi-granularity, site map, topic distillation

10 The scent of a site: a system for analyzing and predicting information scent, usage, and usability of a Web site
Ed H. Chi, Peter Pirolli, James Pitkow
April 2000 **Proceedings of the SIGCHI conference on Human factors in computing systems**

Full text available: pdf(1.29 MB)   Additional Information: full citation, abstract, references, citings, index terms

Designers and researchers of users' interactions with the World Wide Web need tools that permit the rapid exploration of hypotheses about complex interactions of user goals, user behaviors, and Web site designs. We present an architecture and system for the analysis and prediction of user behavior and Web site usability. The system integrates research on human information foraging theory, a reference model of information visualization and Web data-mining techniques. The system also incorporat ...

Keywords: World Wide Web, data mining, dome tree, information foraging, information scent, information visualization, longest repeated subsequences, usability, usage-based layout

11 Usage-based visualization of web localities
Boris Diebold, Michael Kaufmann
December 2001 **Australian symposium on Information visualisation – Volume 9**

Full text available: pdf(864.28 KB)   Additional Information: full citation, abstract, references, index terms

The World-Wide Web has evolved into an extremely huge but "messy" information space which is hard to overview. Sitemaps as alternative views of Web sites have been proposed to assist the user in navigating the hyperspace. As Web localities are subject to frequent change and redesign, it is especially important to provide a system for automatic generation of such sitemaps from various data sources instead of creating them manually. In this paper we present a new usage-based navigation sitemap app ...

12 WebTOC: a tool to visualize and quantify Web sites using a hierarchical table of contents browser
David A. Nation
April 1998 **CHI 98 conference summary on Human factors in computing systems**

Full text available: pdf(260.10 KB)   Additional Information: full citation, references, index terms

Keywords: Java applet, World Wide Web, browsing, exploratory data analysis, graphical representations, hierarchical table of contents, information visualization

13 Object-based navigation: an intuitive navigation style for content-oriented integration environment
Kyoji Hirata, Sougata Mukherjea, Yusaku Okamura, Wen-Syan Li, Yoshinori Hara
April 1997 **Proceedings of the eighth ACM conference on Hypertext**

Full text available: pdf(1.29 MB)   Additional Information: full citation, references, citings, index terms

Keywords: COIR, World-Wide Web, content-oriented integration, object-based navigation, object-level integration, relationship among objects

14 Browsing: Visualizing web site comparisons
Bing Liu, Kaidi Zhao, Lan Yi
May 2002 **Proceedings of the eleventh international conference on World Wide Web**

Full text available: pdf(1.01 MB)   Additional Information: full citation, abstract, references, citings, index terms

The Web is increasingly becoming an important channel for conducting businesses, disseminating information, and communicating with people on a global scale. More and more companies, organizations, and individuals are publishing their information on the Web. With all this information publicly available, naturally companies and individuals want to find useful information from these Web pages. As an example, companies always want to know what their competitors are doing and what products and servic ...

Keywords: browsing, business intelligence, user-interface, visualization, web site comparison

15 1a---Links and Navigation: The look of the link - concepts for the user interface of extended hyperlinks
Harald Weinreich, Hartmut Obendorf, Winfried Lamersdorf
September 2001 **Proceedings of the twelfth ACM conference on Hypertext and Hypermedia**

Full text available: pdf(307.01 KB)   Additional Information: full citation, abstract, references, citings, index terms

The design of hypertext systems has been subject to intense research. Apparently, one topic was mostly neglected: how to visualize and interact with link markers.

This paper presents an overview of pragmatic historical approaches, and discusses problems evolving from sophisticated hypertext linking features. Blending the potential of an XLink-enhanced Web with old ideas and recent GUI techniques, a vision for browser link interfaces of the future is being developed. We hope to stimula ...

Keywords: Web, XLink, distributed hypertext, link marker, user interface

16 Browsers with changing parts: a catalog explorer for Philip Glass' website
Harry Hochheiser
August 2000 **Proceedings of the conference on Designing interactive systems:**

processes, practices, methods, and techniques

Full text available: 📄 pdf(446.89 KB)   Additional Information: full citation, abstract, references, index terms

The development of navigational tools for a web site devoted to a catalog of musical compositions offers a variety of design challenges. A combination of techniques developed from information visualization research - including starfield displays, dynamic queries, and zoomable user interfaces (ZUIs) - was used to construct a prototype browser for possible use in a web site dedicated to the work of Philip Glass. After a discussion of the goals and potential users of the site, this paper descr ...

Keywords: biography, catalog browsing, interactive visualization, music, zoomable user interfaces

17 Improving the browsing experience: A comparative web browser (CWB) for browsing and comparing web pages
Akiyo Nadamoto, Katsumi Tanaka
May 2003 **Proceedings of the twelfth international conference on World Wide Web**

Full text available: 📄 pdf(230.19 KB)   Additional Information: full citation, abstract, references, index terms

In this paper, we propose a new type of Web browser, called the Comparative Web Browser (CWB), which concurrently presents multiple Web pages in a way that enables the content of the Web pages to be automatically synchronized. The ability to view multiple Web pages at one time is useful when we wish to make a comparison on the Web, such as when we compare similar products or news articles from different newspapers. The CWB is characterized by (1) automatic content-based retrieval of passages from ...

Keywords: comparison, content synchronization, passage retrieval, web browser

18 Structuring and visualising the WWW by generalised similarity analysis
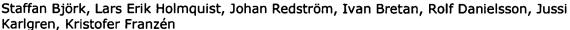Chaomei Chen
April 1997 **Proceedings of the eighth ACM conference on Hypertext**

Full text available: 📄 pdf(962.97 KB)   Additional Information: full citation, references, citings, index terms

Keywords: WWW, information visualisation, pathfinder networks, sequential behavioural patterns, structural analysis

19 WEST: a Web browser for small terminals
Staffan Björk, Lars Erik Holmquist, Johan Redström, Ivan Bretan, Rolf Danielsson, Jussi Karlgren, Kristofer Franzén
November 1999 **Proceedings of the 12th annual ACM symposium on User interface software and technology**

Full text available: 📄 pdf(173.07 KB)   Additional Information: full citation, abstract, references, citings, index terms

We describe WEST, a WEb browser for Small Terminals, that aims to solve some of the problems associated with accessing web pages on hand-held devices. Through a novel combination of text reduction and focus+context visualization, users can access web pages from a very limited display environment, since the system will provide an overview of the contents of a web page even when it is too large to be displayed in its entirety. To make maximum use of the limited resources available on a typica ...

Keywords: WAP (wireless application protocol), flip zooming, focus+context visualization, hand-held devices, proxy systems, text reduction, web browser

20 <u>Web search and navigation: Relational Markov models and their application to adaptive web navigation</u>
Corin R. Anderson, Pedro Domingos, Daniel S. Weld
July 2002 **Proceedings of the eighth ACM SIGKDD international conference on Knowledge discovery and data mining**
Full text available: pdf(1.17 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Relational Markov models (RMMs) are a generalization of Markov models where states can be of different types, with each type described by a different set of variables. The domain of each variable can be hierarchically structured, and shrinkage is carried out over the cross product of these hierarchies. RMMs make effective learning possible in domains with very large and heterogeneous state spaces, given only sparse data. We apply them to modeling the behavior of web site users, improving predict ...

Keywords: Markov models, Web mining, personalization, relational probabilistic models, shrinkage

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